

FILE NOTATIONS

Entered in NID File

☒

Checked by Chief

☒

On S R Sheet

☒

Copy NID to Field Office

☒

Location Map Pinned

☒

Approval Letter

☒

Cost Indexed

☒

Disapproval Letter

☐

I W P State or Fee Land

☐

COMPLETION DATA:

Date Well Completed

5-14-56

Location Inspected

☐

OW

WW

TA

Band released

GW

OS

PA

X

State of Fee Land

☐

LOGS FILED

Driller's Log

6-18-36

Electric Logs (No.)

5

E

☒

I

E-I

GR

GR-N

Micro

Lat

☒

Mi-L

Sonic

Others

Drilling Rate, Lithology, Mud

(2)

Scout Report sent out

☒

Noted in the NID File

☒

Location map pinned

☐

Approval or Disapproval Letter

☒

Date Completed, P. & A. or operations suspended

5-14-56

Pin changed on location map

☐

Affidavit and Record of A & P

☐

Water Shut-Off Test

☐

Gas-Oil Ratio Test

☐

Well Log Filed

☐

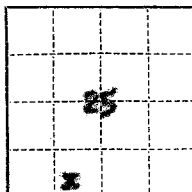
(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-20-603-215



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 13, 1956

East Boundary Butte 3
Well No. 1 is located 660 ft. from NE 1/4 line and 1820 ft. from W 1/4 line of sec. 25
SW 1/4 25 43 E 23 N S.L.B.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wilcox San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5319.79 ft. (ground)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Drill 12-1/4" hole to 750'±.
2. Run and cement 9-5/8" casing at 750'± with 200 sacks construction cement.
3. Drill to a total depth of 5900'. ? what is the objective sand or formation?
Cast
4. If commercial production is obtained, a supplementary completion notice will be filed, otherwise, plug and abandon in accordance with U.S.G.S. regulations.

Surface formation is the Navajo.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address 33 Richards Street

Salt Lake City, Utah

By

B. W. Shepard
B. W. Shepard

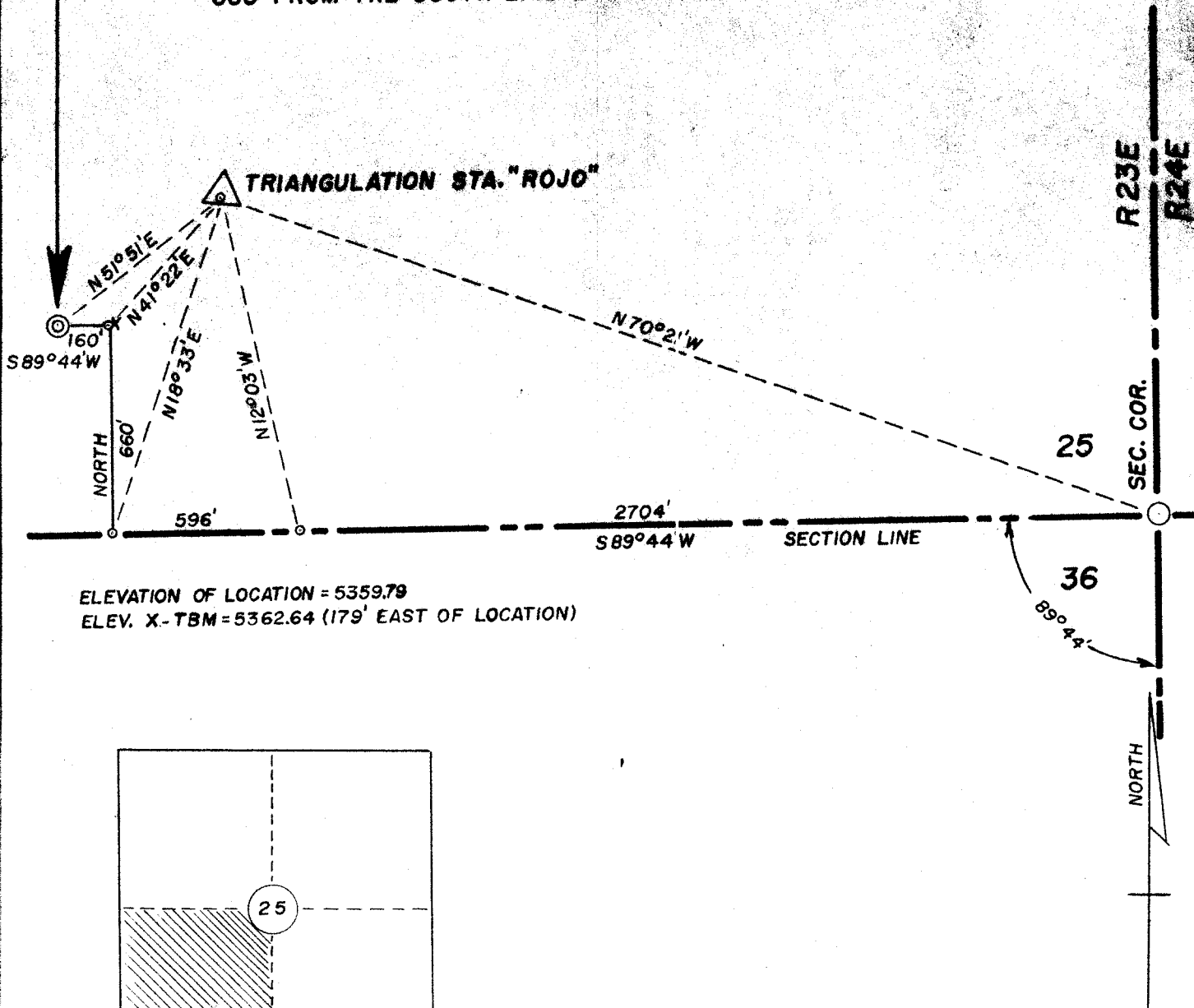
Title

Exploitation Engineer

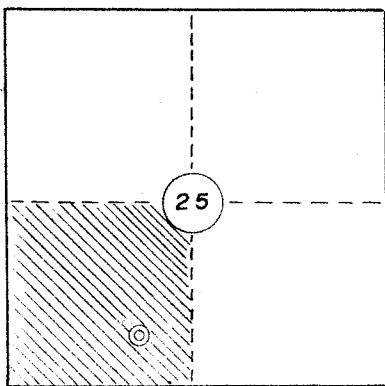
Federal Nation-wide bond #7509759 is on file with U.S.B.L.M.

WELL LOCATION EAST BOUNDARY BUTTE NO.3

660' FROM THE SOUTH LINE & 1820' FROM THE WEST LINE



ELEVATION OF LOCATION = 5359.79
ELEV. X-TBM = 5362.64 (179' EAST OF LOCATION)



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

James P. Leese
JAMES P. LEESE
REGISTERED LAND SURVEYOR
MEM. NO. 1473

SHELL OIL CO.

WELL LOCATION SE 1/4 SW 1/4
SECTION 25 T43S R23E SLM
SAN JUAN COUNTY UTAH

MARCH 9 1956 SCALE 1" = 500'

DRAWN BY W.C.

SAN JUAN ENGINEERING CO.
FARMINGTON NEW MEXICO

March 14, 1956

Shell Oil Company
33 Richards Street
Salt Lake City, Utah

ATTENTION: B. W. Shepard, Exploitation Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. East Boundary Butte -3, which is to be located 660 feet from the south line and 1820 feet from the west line of Section 25, Township 43 South, Range 23 East, S14, San Juan County.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

Very truly yours,

HERBERT F. SMART
COMMISSIONER

CHF:ro

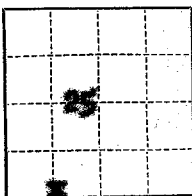
cc: Phil McGrath, District Engineer
USGS
Farmington, New Mexico

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal Lands
Lease No. 14-20-603-715



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 4, 1956

East Boundary Butte
Well No. 3 is located 660 ft. from XXX [S] line and 1820 ft. from XXX [W] line of sec. 25
SW 1/4 25 (1/4 Sec. and Sec. No.) 43S (Twp.) 23E (Range) S.L.B.M. (Meridian)
Wildcat (Field) San Juan (County or Subdivisor) Utah (State or Territory)

Kelly Rushing
The elevation of the ~~water surface~~ above sea level is 5371.78 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

3-26-56 Ran and cemented 9-5/8", 36#, J-55, L.T.C., National casing at 322' with 275 sacks construction cement, last 100 sacks treated with calcium chloride. Good cement returns at surface. Finished 2:30 p.m. 3-26-56. Flanged up and installed blowout equipment. Tested blowout equipment and casing with 700 psi for 30 minutes, OK.

Spudded 3-24-56

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address 33 Richards Street
Salt Lake City, Utah

By B. W. Shepard
B. W. Shepard
Title Exploitation Engineer

SHELL OIL COMPANY

WELL NO. 3

DRILLING REPORT

FOR PERIOD ENDING

May 9, 1956

East Boundary Butte

(FIELD)

San Juan County, Utah

(COUNTY)

Section 25

(SECTION OR LEASE)

T. 13 S., R. 23 E., S. 1, M.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
1956			
5-5 to 5-8 5-9	6020	T. D.	Released Baroid logging unit at 9:00 AM. (May 5, 1956) Ran in with open end drill pipe, circulated. Halliburton cemented plugs at: a. 5900', with 30 sacks Ideal Portlant cement. (bulk) b. 5700 , with 30 " " " " " c. 5200 , with 60 " " " " " d. 4950 , with 70 " " " " " e. 4000 , with 30 " " " " " f. 3150 , with 30 " " " " " g. 2400 , with 30 " " " " " h. 2150 , with 60 " " " " " i. 1700 , with 30 " " " " " j. 1350 , with 30 " " " " " k. 835 , with 50 " " " " " Found firm cement plug at 675'. Released rig at 8:00 AM. (May 9, 1956)
5-14	6020	T. D.	Capped with a 10 sack cement plug, installed marker and officially abandoned 5-14-56.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12 1/4"	0	840'	9 5/8"	823'
7 7/8"	840'	6020'		
DRILL PIPE SIZES 4 1/2"				

Contractor: George Noland Drilling Company

 Drillers: Foster
 Perryman
 Swisher

R. W. Olsen

SIGNED

SHELL OIL COMPANY

WELL NO. 3

East Boundary Butte

(FIELD)

San Juan County, Utah

(COUNTY)

DRILLING REPORT

FOR PERIOD ENDING:

5-4-56

T. 43 S., R. 23 E., S. 1. M.

(SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
1956			
4-28 to 5-1 5-2	5498'	5820'	<p>Drilled 322', treated mud with water, aquagel, impermex, preservative, and gypsum.</p> <p>DST 6: 5698-5820, Bobtail packers @ 5692, 5698; tailpiece 122' to 5820', perforated 5699-5710 and 5796-5804, 58' (0.28 BBL.) air cushion, hole below packers 4.18 Bbls, 4 outside pressure recorders, 1-3/4" subsurface bean, 1-1" surface bean, drill collars and tools 217.15'. Immediate strong steady air blow 1 hour 30 minutes, slowly decreasing to strong steady blow of air and trace gas (2MSA Units) for 25 minutes, decreased to steady weak blow for 35 minutes. Initial shut in 20 minutes, open 2 hours 30 minutes, shut in 1 hour 15 minutes, fluid loss in annulus 3' (0.1 BBL.) Recovered 60' (0.29BBL) very slightly water cut mud (wt. 9.3 to 10.1, salinity 1155 ppm., gas 7/3), IHP 3260, FHP 3150, ISIP 202.5, IFP 115, FFP 129, SIP 129 (rising). Mud in pits 1050 ppm., 10.3 #/gal.</p>
5-3	5820'	5875'	<p>Drilled 55'.</p> <p>DST 7: 5820-5875, Bobtail packers @ 5814, 5820, tailpiece 55' to 5875, perforated 5824-27, 5858-59, 5864-67, 29' (0.14) air cushion, hole below packers 1.97 Bbls, 4 outside recorders, 1-3/4" subsurface bean, 1-1" surface bean, drill collars and tools 124.14'. Immediate very strong air blow for 10 minutes, decreasing strong steady gas blow for 40 minutes, decreasing slowly to good steady gas blow for 100 minutes. Initial shut in 20 minutes, open 2 hours 30 minutes, shut in 1 hour 15 minutes, fluid loss in annulus 3' (0.1 BBL.) recovered 33' (0.47 BBLs.) Mud slightly water cut (salinity 3465, wt. 9.8); 357' (2.04 BBLs.) WCM (salinity 12,705 to 48,750, wt. 9.1), IHP 3215, FHP 3170, ISIP 1835, IFP 120, FFP 180, SIP 815, (stab. 50 minutes). Mud in pits 1050 ppm., 10.3 #/gal.</p>
5-4	5875'	6020'	<p>Drilled 145', treated mud with water, aquagel, impermex, preservative, gypsum. Ran Schlumberger Electrical Survey, Gamma-ray-neutron, Microlog, Laterolog.</p> <p>Mud Summary 4-28-56 - 5-4-56</p> <p>wt. 10.3 #/gal. visc. 53 sec. W.L. 8cc Cake 2/32" Salinity 1050-1980 ppm. NaCl (t) pH 7.5</p>
CONDITION AT BEGINNING OF PERIOD			
HOLE			CASING SIZE
SIZE	FROM	TO	DEPTH SET
12 1/4"	0	840	9 5/8"
7 7/8"	840	5498	
DRILL PIPE SIZES			
4 1/2"			

Tested B.O.P. daily

Contractor: George Noland

Drillers: Foster
Perryman
Swisher

R. W. Olsen

SIGNED

East Boundary Butte

(FIELD)

San Juan Co., Utah

(COUNTY)

DRILLING REPORT

FOR PERIOD ENDING

4-27-56

T. 43 S., R. 23 E., S.L.M.

(SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS																																			
	FROM	TO																																				
4-24 27	5243	5498	<p>Drilled 255'. Treated mud with water, aquagel, impermex, preservative, gypsum. D.S.T. #5, 5380-5498, Johnston testers. Ran tester with two bobtail packers at 5374' and 5380', 4 outside recorders, 1-3/4" sub-surface beam, 1-1" surface beam, perforations 5380' - 5394' and 5480' - 5494', 30' air cushion. Tool open 1 hour 30 minutes after 20 minute initial shut-in, 1 hour final shut-in. Immediate moderate blow, constant throughout test, no inflammable gas to surface. No fluid loss in annulus. Recovered 1410' (17.5 bbl.) Fluid including 60' (.85 bbls.) water cut mud, 510' (empty-well headed) appeared to be slightly muddy water, 300' (4.26 bbls.) Slightly oil-cut muddy Sulphurous water, and 540' (5.6 bbls.) Slightly muddy black Sulphurous water.</p> <table border="1"> <thead> <tr> <th>Feet Above Tester</th> <th>Description</th> <th>Salinity (t) ppm NaCl</th> <th>Wt. lbs/gal.</th> <th>Fluo.</th> </tr> </thead> <tbody> <tr> <td>1350'</td> <td>W.C.M.</td> <td>6,280</td> <td>9.2</td> <td>Brown Yellow</td> </tr> <tr> <td>810'</td> <td>sl. O.C. M. Sul.W.</td> <td>9,400</td> <td>7.8</td> <td>Brown Green Yellow</td> </tr> <tr> <td>720'</td> <td>sl. O.C. M. Sul.W.</td> <td>28,000</td> <td>7.8</td> <td>Brown Green Yellow</td> </tr> <tr> <td>340'</td> <td>sl. M. BK. Sul.W.</td> <td>115,000</td> <td>8.9</td> <td>Brown Yellow</td> </tr> <tr> <td>90'</td> <td>sl. M. BK. Sul.W.</td> <td>105,000</td> <td>9.0</td> <td>Brown Yellow</td> </tr> <tr> <td>0'</td> <td>sl. M. BK. Sul.W.</td> <td>102,000</td> <td>9.0</td> <td>Bright Yellow</td> </tr> </tbody> </table> <p>ISIP 1825, H.P. 3005, IFP 230, FFP 560, SIP 1740 nearly stabilized after 3 minutes.</p> <p><u>Mud Summary</u> 4-24-27-56</p> <p>Weight 10.3 #/gal Water loss 6 cc. pH 7.5 Viscosity 57 sec. Cake 2/32" Salinity 1980 ppm NaCl (t)</p> <p>Tested: B.O.P. daily. Contractor: George Noland Drillers: Foster Perryman Swisher</p>	Feet Above Tester	Description	Salinity (t) ppm NaCl	Wt. lbs/gal.	Fluo.	1350'	W.C.M.	6,280	9.2	Brown Yellow	810'	sl. O.C. M. Sul.W.	9,400	7.8	Brown Green Yellow	720'	sl. O.C. M. Sul.W.	28,000	7.8	Brown Green Yellow	340'	sl. M. BK. Sul.W.	115,000	8.9	Brown Yellow	90'	sl. M. BK. Sul.W.	105,000	9.0	Brown Yellow	0'	sl. M. BK. Sul.W.	102,000	9.0	Bright Yellow
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DRILL PIPE SIZES			4 1/2"																																			

R. W. Olsen

SIGNED

SHELL OIL COMPANY

WELL NO. 3

East Boundary Butte

(FIELD)

San Juan Co., Utah

(COUNTY)

DRILLING REPORT

FOR PERIOD ENDING

April 23, 1956

Section 25

(SECTION OR LEASE)

T.43 S., R.23 E., S.L.M.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS																									
	FROM	TO																										
1956																												
4-20	4913	5214	Drilled 301', treated mud with water, aquagel, impermex, preservative, gypsum.																									
21																												
4-22			D.S.T. 3: 5041-5214: Johnston Testers, Bobtail packers at 5036 and 5041, tailpiece 173' to 5214, perforations 5042-5051 and 5198-5206, air cushion 58' (0.29Bbl), 4 outside pressure recorders, 1-3/4" subsurface bean, 1-1" surface bean. Initial shut in 20 minutes, opened valve 4:50 p.m., immediate strong steady air blow 6 minutes, very strong steady air blow 6 minutes, very strong increasing gas blow 1 hour 45 minutes, gas heading 5 minutes, gas and fluid heading 45 minutes, (pressure 0 to 34 psig), flowed 7 BBL slightly oily Gas Cut mud, tester open 2 hours 40 minutes, shut in 1 hour 23 minutes, fluid loss in annulus 2' or 0.1 BBL, recovery in drill pipe 1612 (20.7Bbls.), slightly oily and slightly muddy, Gas Cut Water, very sulfurous (H ₂ S > 0.04%), salinity 103500 ppm (t), weight 8.9. #/gallon, mud in pits 660 ppm., 10.4 #/gallon. ISIP 1750, HP 2540, IFP 315, FFP 640, SIP 1720 (stab. after 30 minutes) Gas rate approximately 200 MCF/D.																									
4-23	5214	5243	Drilled 29' D.S.T. 4: 5040-5070: Packers failed immediately. D.S.T. 4A: 5033-5083: Packers failed after dropping bar.																									
			<p><u>Mud Summary</u></p> <p>Weight 10.5 #/gallon Viscosity 44 sec. Water loss 7.8 cc. Cake 2/32 in. PH 7.5 Salinity 660 ppm. NaCl (t)</p>																									
<p>CONDITION AT BEGINNING OF PERIOD</p> <table border="1"> <thead> <tr> <th colspan="3">HOLE</th> <th>CASING SIZE</th> <th>DEPTH SET</th> </tr> <tr> <th>SIZE</th> <th>FROM</th> <th>TO</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>12 1/4"</td> <td>0</td> <td>840</td> <td>9 5/8"</td> <td>823</td> </tr> <tr> <td>7 7/8"</td> <td>840</td> <td>4913</td> <td>-</td> <td></td> </tr> <tr> <td colspan="3">DRILL PIPE SIZES 4 1/2"</td> <td></td> <td></td> </tr> </tbody> </table>				HOLE			CASING SIZE	DEPTH SET	SIZE	FROM	TO			12 1/4"	0	840	9 5/8"	823	7 7/8"	840	4913	-		DRILL PIPE SIZES 4 1/2"				
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DRILL PIPE SIZES 4 1/2"																												

Tested B.O.P. daily
Contractor: George Noland
Drillers: Foster
Perryman
Swisher

R. W. Olsen

SIGNED

DRILLING REPORT

FOR PERIOD ENDING

4-19-56East Boundary Butte

(FIELD)

San Juan Co., Utah

(COUNTY)

25

(SECTION OR LEASE)

T43S., R23E., SLBM.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS																												
	FROM	TO																													
4-19	-	4913	<p>DST 2 <u>4820-4913</u>, Johnston Testers. Ran tester with 2 packers at 4820 and 4816, 4 outside pressure recorders, 3/4" subsurface bean, 1" surface bean, perforations 4821-4834, 32' (0.16 bbls.) air cushion. Tool open 2 hours, 32 minutes, shut in 1 hour, 18 minutes; strong steady blow throughout test. Gas to surface 1 hour, 25 minutes. Rate, nil. Fluid loss in annulus 2' (0.1 bbls.) Recovered 746' (7.83 bbls.) very slightly muddy, gassy water (sulfureous) (H₂S > 0.04%)</p> <table border="1"> <thead> <tr> <th>Feet Above Tester</th> <th>Description</th> <th>Salinity (t) NaCl</th> <th>Wt. # Gallon</th> </tr> </thead> <tbody> <tr> <td>746'</td> <td>Very slightly muddy gassy water</td> <td>41,250 ppm.</td> <td>8.8</td> </tr> <tr> <td>656'</td> <td>Very slightly muddy gassy water</td> <td>-</td> <td>8.9</td> </tr> <tr> <td>566'</td> <td>Very slightly muddy gassy water</td> <td>101,650 ppm.</td> <td>8.9</td> </tr> <tr> <td>386'</td> <td>Very slightly muddy gassy water</td> <td>82,500 ppm.</td> <td>8.9</td> </tr> <tr> <td>296'</td> <td>Very slightly muddy gassy water</td> <td>74,250 ppm.</td> <td>8.8</td> </tr> <tr> <td>0'</td> <td>Very slightly muddy gassy water</td> <td>74,250 ppm.</td> <td>8.8</td> </tr> </tbody> </table> <p>Mud before test 1320 ppm. (t) ISIP 1510, HP 2680, IFPO, FFP 420, SIP 1510 (stab. after 20 minutes.)</p> <p>Tested BOP Daily.</p> <p><u>Mud Summary 3-31-56 to 4-19-56</u></p> <p>Wt. 10.4-10.6 #/Gallon Vis. 40-47 Sec. WL. 5.6-12 cc. F.C. 2-3/32 in. PH 7.5 Salinity 1320-3300 ppm. NaCl (t)</p> <p>Contractor: George Noland Drillers: Foster Perryman Swisher</p>	Feet Above Tester	Description	Salinity (t) NaCl	Wt. # Gallon	746'	Very slightly muddy gassy water	41,250 ppm.	8.8	656'	Very slightly muddy gassy water	-	8.9	566'	Very slightly muddy gassy water	101,650 ppm.	8.9	386'	Very slightly muddy gassy water	82,500 ppm.	8.9	296'	Very slightly muddy gassy water	74,250 ppm.	8.8	0'	Very slightly muddy gassy water	74,250 ppm.	8.8
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R. W. Olsen

SIGNED

SHELL OIL COMPANY

WELL NO. 3

East Boundary Butte

(FIELD)

San Juan Co., Utah

(COUNTY)

DRILLING REPORT

FOR PERIOD ENDING

4-19-5625

(SECTION OR LEASE)

T43S., R23E., SLBM

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS												
	FROM	TO													
3-31 to 4-1	1900	2670	<u>Drilled 770'</u> . Treated mud with water, aquagel, tannex, soda ash. Changed to gypsum base mud at 2670'.												
4-1 to 4-16	2670	4825	<u>Drilled 2155'</u> . Treated mud with water aquagel, impermex, preservative, and gypsum. Baroid 3-man logging crew started 12:01 AM 4-13-56.												
4-17			<u>DST 1 4708-4825</u> , Johnston Testers. Ran tester with 2 bobtailed packers at 4704' and 4708', 4 outside pressure recorders, 3/4" sub-surface bean, 1" surface bean, perforations 4709 to 4719, 4807 to 4811, air cushion 33' (0.16 bbl.) Initial shut in 20 minutes, tool open 2 hours, 30 minutes; shut in 1 hour, 17 minutes, strong steady blow throughout test. Gas to surface in 50 minutes. Rate, nil. Recovered 184' (.90 bbls.) mud.												
			<table border="1"> <thead> <tr> <th>Feet Above Tester</th> <th>Description</th> <th>Salinity (t) NaCl.</th> <th>Wt. # Gallon</th> </tr> </thead> <tbody> <tr> <td>184'</td> <td>Mud</td> <td>1400 ppm.</td> <td>9.8</td> </tr> <tr> <td>0'</td> <td>Mud</td> <td>1500 ppm.</td> <td>9.6</td> </tr> </tbody> </table> <p>Mud before test 1650 ppm. (t) ISIP 760, HP 2685, IFP 135, FFP 135, SIP 310 (still rising after 75 minutes).</p>	Feet Above Tester	Description	Salinity (t) NaCl.	Wt. # Gallon	184'	Mud	1400 ppm.	9.8	0'	Mud	1500 ppm.	9.6
Feet Above Tester	Description	Salinity (t) NaCl.	Wt. # Gallon												
184'	Mud	1400 ppm.	9.8												
0'	Mud	1500 ppm.	9.6												
4-18	4825	4920	<u>Drilled 95'</u> . Corrected depth to 4913' at 4920'. Ran Schlumberger Electrical Survey, Gamma Ray-Neutron Log and Microlog. Treated mud with water, aquagel, impermex, perservative, and gypsum.												

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12 1/4"	0	840	9 5/8"	823'
7 7/8"	840	1900		
DRILL PIPE SIZES <u>4 1/2"</u>				

R. W. Olsen

SIGNED

East Boundary Butte
(FIELD)
San Juan County, Utah
(COUNTY)

DRILLING REPORT
FOR PERIOD ENDING

3-30-56

Section 25
(SECTION OR LEASE)
T. 43 S., R. 23 E., SLM
(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
			Location: 1980' E. and 990' N. of SW corner, section 25, T. 43 S., R. 23 E., SLM, San Juan County, Utah. Elevations: D.F. 5371.78 Mat. 5360.10 K.B. 5373.78
3-24, 25	0	840	Spudded 1:30 P.M. (3-24-56) with 12 1/4" bit, drilled 840', treated mud with water, gel.
3-26			Ran 9 5/8", 36#, J-55, LT&C National casing, shoe at 823, (Halliburton) cemented 275 sacks construction cement, last 100 treated with calcium chloride. 10 bbl. water and one wood plug ahead, rubber plug behind, plugs 15+ feet apart, did not bump plugs, good cement returns at surface. One centralizer on shoe joint.
3-27			Flanged up casing and installed 10" series 900 GK Hydril blow out preventer with accumulator and 10" series 900 double, hydraulic, control gate with pipe rams and complete shut-off rams. Tested B.O.P. and casing with 700# for 15 minutes, O.K.
3-28, 30	840	1900	Drilled 1160', one man Baroid unit started logging 4:00 P.M. (3-28-56) treated mud with water and gel, tannex, soda, ash. <u>Mud Summary</u> Wt. 10#/gal. Visc. 39 sec. Water loss 12.5 cc. Cake 2/32 in. pH 11 Sal. 1100 ppm. NaCl (t) Tested B.O.P. daily.

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE SIZES				

Noted
CCH
6-21-56

Contractor: George Noland

Drillers: Foster
Perryman
Swisher

R. W. Olsen

SIGNED

DITCH SAMPLES

Examined by R. W. Olsen 0 to 1770
_____ to _____Well 3
Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED (NOT)
0	60	100	<u>Sandstone</u> , red and rare white, slightly calcareous, fine grained, locally silty and shaly.	
60	160	90	<u>Siltstone & Shale</u> , dark reddish brown, slightly calcareous, locally sandy.	
		10	<u>Sandstone</u> , white calcareous, fine grained.	
160	260	100	<u>Sandstone</u> , red and rare white, as above.	
260	300	90	<u>Siltstone & Shale</u> , as above.	
		10	<u>Sandstone</u> , white, as above.	
300	360	70	<u>Sandstone</u> , dark reddish brown, slightly calcareous, argillaceous, fine grained, <u>Tentative top Kayenta 300'</u> .	
		30	<u>Sandstone</u> , white to light greenish gray, calcareous, fine grained,, <u>Tentative top Wingate 360'</u> .	
360	520	95	<u>Sandstone</u> , dark reddish brown, as above.	
		5	<u>Sandstone</u> , white to light greenish gray.	
520	786	100	<u>Sandstone</u> , medium reddish brown, slightly calcareous, argillaceous, very fine grained, well sorted.	
786	840	100	<u>Siltstone</u> , medium reddish brown, very slightly calcareous, argillaceous, sandy, fair indurated.	
840	1600	100	<u>Siltstone</u> , medium brownish red, and rare light greenish gray, slightly calcareous, very sandy (very fine grained), fairly well indurated, trace coarse grained, angular quartz, trace white chert, trace dark gray siltstone. 940-970: trace black tarry substance, no fluorescence, good bright yellow cut fluorescence, dark brown visible cut, may be contamination or gilsonite (?). <u>Tentative top Chinle 970'</u> .	
1600	1660	10	<u>Siltstone</u> , as above.	
		90	<u>Dolomite</u> , medium grayish brown, sandy, silty, argillaceous, rare inbedded quartz and calcite, rare pyrite, grades into siltstone, I-III VFA, trace white I VFA limestone.	
1660	1700	50	<u>Siltstone</u> , as above.	
		50	<u>Dolomite</u> , as above.	
			<u>Tentative top Shinarump 1700'</u> .	
1700	1770 av.	40	<u>Sandstone</u> , medium to coarse grained, subrounded, bentonitic (?), grains frosted, mostly quartz.	
		av. 30	<u>Siltstone</u> , as above.	
		av. 30	<u>Dolomite</u> , as above, trace white I VFA limestone.	
			<u>Tentative top Moenkopi 1790'</u> .	

V.T.D. 6020 FT

DITCH SAMPLES

Examined by R. W. Olsen 1770 to 3010
toWell 3
Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES / ^{NOT} LAGGED
1770	1790	80	<u>Sandstone</u> , as above.	
		20	<u>Siltstone</u> , as above.	
1790	1930	100	<u>Clay</u> , medium reddish brown, slightly calcareous, very soft and gummy.	
1930	1980	100	<u>Clay</u> , medium reddish brown, light greenish gray, slightly calcareous, bentonitic(?), very soft and gummy, @ 1970 trace coarse grained sand.	
1980	2100	80	<u>Sand & siltstone</u> , light gray to light green, medium to coarse grained, occasionally granulated, angular to subangular, slightly calcareous, poorly sorted, predominantly quartz, grains frosted, trace pyrite, trace carbonaceous material.	
		20	<u>Clay & siltstone</u> , as above.	
2100	2230	60	<u>Sand</u> , medium to granulated, subrounded, well sorted, frosted, predominantly quartzite.	
		40	<u>Clay & siltstone</u> , as above, trace pyrite.	
2230	2300	80	<u>Shale</u> , medium reddish brown to purple, slightly calcareous, soft.	
		20	<u>Sand</u> , as above, trace pyrite.	
2300	2410	95	<u>Shale</u> , varicolored (red, purple, brown, green, yellow), slightly calcareous soft, silty locally.	
		5	<u>Sand</u> , as above, trace pyrite.	
2410	2700	100	<u>Shale & siltstone</u> , varicolored, predominantly red, green, orange, slightly calcareous, fair induration, trace quartz sand, trace white limestone, trace carbonaceous material.	
2700	2820	95	<u>Siltstone</u> , bright brownish red to orange, calcareous, very argillaceous, soft.	
		5	<u>Shale & siltstone</u> , varicolored, as above.	
			Trace white limestone, trace pyrite, trace quartz sand, trace carbonaceous material.	
2820	2950	100	<u>Siltstone</u> , bright brownish red, rare green, calcareous, very argillaceous, soft.	
			Trace white limestone, trace quartz sand.	
2950	3010	av. 85	<u>Siltstone</u> , as above.	
		15	<u>Limestone</u> , varicolored (green, white, gray, brown) I-III VFA.	
			Trace quartz sand, trace light green, calcareous, very fine grained, chloritic quartz sandstone; @ 2980 begins trace anhydrite.	

DITCH SAMPLES

Examined by R. W. Olsen 3010 to 3280
_____ to _____Well 3
Field or Area East Boundary Butte
NOT

FROM	TO	%	SHOWS UNDERLINED	SAMPLES / LAGGED
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3010 3230 av. 90 Siltstone, as above.10 Sandstone, as above, varicolored limestone, gypsum or anhydrite, quartz sand.3230 3280 av. 90 Siltstone, light grayish green, slightly calcareous, sandy, argillaceous, bentonitic (?), chloritic.10 Limestone, varicolored, siltstone (brown); trace anhydrite, trace quartz sand.

DITCH SAMPLES

Examined by R. W. Olsen 3280 to 3470
J. M. Burns _____ to _____

Well 3
 Field or Area East Boundary Butte
 NOT

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
3280	3320 av.	60	<u>Siltstone</u> , light grayish green, slightly calcareous, sandy, argillaceous, bentonitic(?), chloritic.	
		40	<u>Varicolored limestone</u> , brown siltstone, anhydritic, quartz sand, dark gray <u>siltstone</u> .	
3320	3340	85	<u>Limestone</u> , light gray to light green, I VFA.	
		15	<u>Siltstone</u> , as above.	
3340	3350	10	<u>Limestone</u> , light brown, I VFA.	
		90	<u>Shale and siltstone</u> , varicolored, calcareous.	
3350	3360	100	<u>Shale and siltstone</u> , as above, <u>siltstone</u> , grading in part to <u>sandstone</u> , very fine grained, calcareous.	
3360	3380	10	<u>Limestone</u> , tan to medium gray, I VFA.	
		10	<u>Sandstone</u> , tan, very fine grained, calcareous.	
		80	<u>Shale and siltstone</u> , varicolored, calcareous, with <u>anhydrite</u> inclusions.	
3380	3390	30	<u>Limestone</u> , tan, I VFA.	
		10	<u>Sandstone</u> , as above.	
		60	<u>Shale and siltstone</u> , as above.	
3390	3410	100	<u>Shale and siltstone</u> , as above, with minor <u>anhydrite</u> inclusions.	
3410	3430	5	<u>Limestone</u> , as above.	
		95	<u>Shale and siltstone</u> , varicolored, calcareous.	
3430	3440	10	<u>Limestone</u> , white to tan, I/II VFA.	
		90	<u>Shale and siltstone</u> , as above.	
3440	3450	20	<u>Limestone</u> , tan, I VFA.	
			Trace <u>chert</u> .	
		80	<u>Shale and siltstone</u> , as above.	
3450	3460	100	<u>Shale and siltstone</u> , as above, with <u>anhydrite</u> inclusions, <u>siltstone</u> grading in part to <u>sandstone</u> , very fine grained.	
3460	3470	10	<u>Limestone</u> , as above.	
		90	<u>Shale and siltstone</u> , as above.	

DITCH SAMPLES

Examined by J. M. Burns 3470 to 3795
_____ to _____Well 3
Field or Area East Boundary Butte
NOT

FROM	TO	%	SHOWS UNDERLINED	SAMPLES / LAGGED
3470	3480	100	<u>Shale and siltstone</u> , varicolored, calcareous.	
3480	3490	20	<u>Sandstone</u> , white to light green, very fine grained.	
		80	<u>Shale and siltstone</u> , as above.	
3490	3510	100	<u>Shale and siltstone</u> , as above.	
3510	3530	50	<u>Sandstone</u> , as above, very calcareous, grading in part to sandy <u>limestone</u> .	
		50	<u>Shale and siltstone</u> , as above.	
3530	3550	10	<u>Sandstone</u> , as above.	
		90	<u>Shale and siltstone</u> , as above with <u>anhydrite</u> inclusions.	
3550	3560	100	<u>Shale and siltstone</u> , as above.	
3560	3570	50	<u>Limestone</u> , tan to grayish green to medium gray, I VFA, very sandy, grading in part to very calcareous, very fine grained, <u>sandstone</u> .	
		50	<u>Shale and siltstone</u> , varicolored, predominantly reddish brown, calcareous.	
3570	3580	50	<u>Sandstone</u> , as above.	
		50	<u>Shale and siltstone</u> , as above.	
3580	3600	50	<u>Limestone</u> , as above with minor <u>anhydrite</u> inclusions.	
		50	<u>Shale and siltstone</u> , as above.	
3600	3640	100	<u>Shale and siltstone</u> , as above.	
3640	3650	10	<u>Sandstone</u> , tan to grayish green, very fine grained, calcareous.	
		90	<u>Shale and siltstone</u> , as above.	
3650	3670	100	<u>Shale and siltstone</u> , as above.	
3670	3680	10	<u>Sandstone</u> , white to green, very fine to fine grained, calcareous.	
		90	<u>Shale and siltstone</u> , as above.	
3680	3780	100	<u>Shale and siltstone</u> , as above.	
3780	3785	10	<u>Sandstone</u> , white to light green, very fine grained, calcareous.	
		90	<u>Shale and siltstone</u> , as above.	
3785	3795	100	<u>Shale and siltstone</u> , as above, with <u>anhydrite</u> inclusions.	

DITCH SAMPLES

Examined by J. M. Burns 3795 to 3950
_____ to _____Well 3
Field or Area East Boundary Butte
NOT

FROM	TO	%	SHOWS UNDERLINED	SAMPLES / LAGGED
3795	3800	100	As above.	
			trace <u>limestone</u> , I VFA.	
3800	3830	100	<u>Shale and siltstone</u> , as above.	
3830	3840	30	<u>Sandstone</u> , light reddish brown, very fine grained, calcareous, argillaceous	
		70	<u>Shale and siltstone</u> , as above.	
3840	3850	10	<u>Sandstone</u> , as above.	
		90	<u>Shale and siltstone</u> , as above.	
3850	3855	100	<u>Shale and siltstone</u> , as above.	
3855	3860	10	<u>Sandstone</u> , as above.	
		90	<u>Shale and siltstone</u> , as above.	
3860	3880	100	<u>Shale and siltstone</u> , as above.	
3880	3895	40	<u>Sandstone</u> , as above.	
		60	<u>Shale and siltstone</u> , as above.	
3895	3905	10	<u>Sandstone</u> , as above.	
		90	<u>Shale and siltstone</u> , as above.	
3905	3910	5	<u>Limestone</u> , medium gray to brown, I VFA.	
		95	<u>Shale and siltstone</u> , as above.	
3910	3915	5	<u>Limestone</u> , white to pink, I VFA, fossiliferous.	
		95	<u>Shale and siltstone</u> , as above.	
3915	3920	100	<u>Shale and siltstone</u> , as above.	
			trace <u>chert</u> .	
3920	3925	100	<u>Shale and siltstone</u> , as above.	
			trace <u>limestone</u> , II/I VFA, sandy.	
3925	3935	80	<u>Limestone</u> , white to gray, I/II VFA, sandy in part.	
		20	<u>Shale and siltstone</u> , as above.	
3935	3940	50	<u>Limestone</u> , as above.	
		50	<u>Shale and siltstone</u> , as above.	
3940	3945	25	<u>Limestone</u> , as above.	
		25	<u>Sandstone</u> , as above.	
		50	<u>Shale and siltstone</u> , as above.	
3945	3950	5	<u>Limestone</u> , as above.	
		10	<u>Sandstone</u> , as above.	
		85	<u>Shale and siltstone</u> , as above.	

DITCH SAMPLES

Examined by J. M. Burns 3950 to 4235
R. W. Olsen _____ to _____
E. M. Wright _____

Well 3
 Field or Area East Boundary Butte

NOT

FROM	TO	%	SHOWS UNDERLINED	SAMPLES / LAGGED
3950	3955	10	<u>Sandstone</u> , very fine grained, as above.	
		10	<u>Sandstone</u> , light green, very fine grained, siliceous.	
		80	<u>Shale and siltstone</u> , as above.	
3955	3960	10	<u>Limestone</u> , cream to light gray, I/III VF-FA.	
		20	<u>Sandstone</u> , very fine grained, calcareous, argillaceous, as above.	
		70	<u>Shale and siltstone</u> , as above.	
3960	3965	5	<u>Limestone</u> , as above, sandy in part.	
		10	<u>Anhydrite</u> , white, fine crystalline.	
			Trace <u>sandstone</u> , as above.	
		85	<u>Shale and siltstone</u> , as above.	
3965	3970	100	<u>Shale and siltstone</u> , as above.	
			Trace <u>limestone</u> , brown, I VFA, anhydritic.	
3970	3980	10	<u>Limestone</u> , grayish green, I VFA, sandy, grading in part to <u>sandstone</u> , very fine grained.	
		90	<u>Shale and siltstone</u> , as above.	
3980	3985	100	<u>Shale and siltstone</u> , as above.	
3985	3995	90	<u>Shale and siltstone</u> , as above.	
		10	<u>Anhydrite</u> , white, very fine to fine, crystalline.	
3995	4100	100	<u>Shale and siltstone</u> , medium reddish brown to medium greenish gray, calcareous, slightly sandy, soft. Trace white sandy limestone, trace anhydrite, trace pyrite, trace carbonaceous material 4000-4005.	
4100	4115	90	<u>Shale and siltstone</u> , as above.	
		10	<u>Anhydrite and gypsum</u> , trace quartz.	
4115	4125	100	<u>Shale and siltstone</u> , as above, trace anhydrite, trace pyrite, trace quartz.	
4125	4135	100	<u>Siltstone</u> , grayish green, brown, red, calcareous.	
4135	4225	100	<u>Siltstone and shale</u> , red, grayish green, slightly calcareous to calcareous.	
4225	4235	90	<u>Siltstone</u> , as above.	
		10	<u>Limestone</u> , grayish green, I VFA, argillaceous.	

DITCH SAMPLES

Examined by R. W. Olsen 4235 4410
E. M. Wright to _____

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED (NOT)
4235	4240	90	<u>Siltstone</u> , orange to red, gray, calcareous.	
		10	<u>Sandstone</u> , white to light green, very calcareous.	
4240	4300	80	<u>Siltstone</u> , as above.	
		10	<u>Sandstone</u> , as above.	
		10	<u>Limestone</u> , light gray to light brown, I VFA, argillaceous, trace milky to light brown chert from 4255'.	
4300	4305	70	<u>Siltstone</u> , as above.	
		30	<u>Limestone</u> , white, I VFA.	
4305	4310	90	<u>Siltstone</u> , as above.	
		10	<u>Limestone</u> , as above.	
4310	4315	60	<u>Shale</u> , reddish orange, brown, sandy, slightly calcareous.	
		40	<u>Limestone</u> , medium gray to white, I VFA, slightly sandy, argillaceous.	
4315	4320	50	<u>Shale</u> , as above.	
		50	<u>Sandstone</u> , brown, calcareous, very fine grained.	
4320	4340	50	<u>Limestone</u> , as above.	
		40	<u>Sandstone</u> , as above.	
		10	<u>Shale</u> , as above.	
4340	4350	70	<u>Limestone</u> , as above, trace amber quartz and chert.	
		10	<u>Sandstone</u> , as above.	
		10	<u>Shale</u> , as above.	
		10	<u>Sandstone</u> , white, very calcareous, fine grained.	
4350	4380	50	<u>Shale</u> , reddish orange, red, calcareous.	
		20	<u>Siltstone</u> , brown, slightly calcareous.	
		30	<u>Limestone</u> , as above.	
4380	4410	80	<u>Limestone</u> , medium gray to white, I VFA, argillaceous, slightly sandy, trace chert.	
		20	<u>Shale</u> , as above.	

DITCH SAMPLES

Examined by R. W. Olsen 4410 to 4430
E. M. Wright _____ to _____

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
4410	4420	40	<u>Siltstone</u> , bright orange to red, slightly calcareous.	
		30	<u>Limestone</u> , medium gray to white, I VFA, argillaceous, slightly sandy.	
		20	<u>Siltstone</u> , dark red, calcareous, with some quartz grain inclusions.	
		10	<u>Shale</u> , light maroon, very friable.	
4420	4430	60	<u>Shale</u> , light maroon, as above.	
		20	<u>Siltstone</u> , varicolored.	
		20	<u>Limestone</u> , as above.	

NOTE: Samples are lagged after 4425'.

DITCH SAMPLES

Examined by R.W. Olsen 4430 to 4555
E. M. Wright to

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
4430	4440	50	<u>Shale and Siltstone</u> , varicolored, calcareous to non-calcareous.	
		30	<u>Limestone</u> , medium gray to white, I VFA, argillaceous, slightly sandy.	
		20	<u>Shale</u> , purple, non-calcareous, with small calcite inclusions.	
4440	4450	50	<u>Siltstone</u> , varicolored, as above.	
		40	<u>Shale</u> , purple, as above.	
		10	<u>Limestone</u> , as above.	
4450	4470	50	<u>Siltstone</u> , varicolored, as above.	
		20	<u>Shale</u> , maroon and light gray, non-calcareous.	
		20	<u>Shale</u> , purple, as above.	
		10	<u>Limestone</u> , as above, trace quartz grains (rounded to subangular, clear to frosted.)	
4470	4500	30	<u>Shale</u> , light gray, non-calcareous.	
		20	<u>Sandstone</u> , brown, calcareous, fine grained.	
		20	<u>Siltstone</u> , varicolored, as above.	
		20	<u>Limestone</u> , as above.	
		10	<u>Shale</u> , purple, non-calcareous.	
4500	4535	40	<u>Siltstone</u> , as above.	
		30	<u>Limestone</u> , as above.	
		30	<u>Shale</u> , as above.	
4535	4550	30	<u>Shale</u> , orange to red, grayish green, calcareous.	
		30	<u>Siltstone</u> , brown, calcareous.	
		30	<u>Limestone</u> , light gray to white, I VFA.	
		10	<u>Sandstone</u> , white, very calcareous.	
4550	4555	50	<u>Shale</u> , orange to red, gray green, calcareous.	
		30	<u>Siltstone</u> , as above.	
		20	<u>Limestone</u> , as above.	

DITCH SAMPLES

Examined by R. W. Olsen 4555 to 4660
E. M. Wright to

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
4555	4565	50	<u>Limestone</u> , gray, I VFA, argillaceous.	
		40	<u>Siltstone</u> , brown, calcareous.	
		10	<u>Shale</u> , red to orange, calcareous.	
4565	4570	60	<u>Siltstone</u> , brown, calcareous.	
		20	<u>Limestone</u> , light gray to white, I VFA.	
		20	<u>Shale</u> , red to orange, calcareous.	
4570	4575	80	<u>Limestone</u> , as above.	
		20	<u>Shale and Siltstone</u> , as above.	
4575	4580	50	<u>Limestone</u> , gray, I VFA, argillaceous.	
		50	<u>Siltstone</u> , brown, calcareous.	
4580	4605	40	<u>Siltstone</u> , orange to red, brown, slightly calcareous to calcareous.	
		30	<u>Shale</u> , gray green, calcareous, slightly micaceous.	
		30	<u>Limestone</u> , gray, gray green, I VFA, argillaceous, slightly sandy.	
4605	4625	40	<u>Shale</u> , varicolored.	
		30	<u>Siltstone</u> , as above.	
		20	<u>Limestone</u> , as above.	
		10	<u>Shale</u> , gray green, as above.	
4625	4635	40	<u>Shale</u> , light gray to greenish gray, non-calcareous, micaceous.	
		30	<u>Shale and Siltstone</u> , varicolored.	
		30	<u>Limestone</u> , as above.	
4635	4650	50	<u>Siltstone</u> , varicolored.	
		20	<u>Shale</u> , gray green to gray, non-calcareous.	
		20	<u>Limestone</u> , as above.	
		10	<u>Shale</u> , red, calcareous. Trace black mafics.	
4650	4660	40	<u>Limestone</u> , as above.	
		30	<u>Siltstone</u> , as above.	
		20	<u>Shale</u> , gray green.	
		10	<u>Shale</u> , red.	

DITCH SAMPLES

Examined by R. W. Olsen 4660 to 4735
E. M. Wright to _____

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
4660	4675	40	<u>Limestone</u> , as above.	
		30	<u>Shale</u> , gray green.	
		20	<u>Shale</u> , red to purple.	
		10	<u>Siltstone</u> , as above.	
4675	4680	55	<u>Limestone</u> , light yellow to medium gray, I VFA.	
		30	<u>Sandstone</u> , white, very calcareous, almost sandy. II FA limestone, very friable.	
		10	<u>Shale</u> , varicolored.	
		5	<u>Chert</u> , tan.	
4680	4690	50	<u>Limestone</u> , dark gray to white, IVFA, argillaceous.	
		20	<u>Siltstone</u> , brown, reddish brown.	
		30	<u>Shale</u> , varicolored.	
4690	4695	30	<u>Shale</u> , red.	
		30	<u>Siltstone</u> , as above.	
		30	<u>Limestone</u> , dark gray, I VFA, argillaceous.	
		10	<u>Limestone</u> , light tan, I VFA, dolomitic.	
4695	4700	30	<u>Siltstone</u> , brown, clacareous.	
		30	<u>Limestone</u> , gray, I VFA, argillaceous.	
		20	<u>Limestone</u> , light tan, as above.	
		20	<u>Siltstone</u> , greenish gray, calcareous.	
4700	4720	60	<u>Limestone</u> , light tan, as above.	
		30	<u>Limestone</u> , dark gray, argillaceous.	
		10	<u>Siltstone</u> , red, calcareous.	
4720	4725	70	<u>Siltstone</u> , varicolored.	
		30	<u>Limestone</u> , dark gray, light tan, I VFA.	
4725	4735	50	<u>Limestone</u> , dark gray, I VFA, slightly sandy, very argillaceous.	
		40	<u>Siltstone</u> , as above.	
		10	<u>Limestone</u> , light tan, I VFA, dolomitic?	

DITCH SAMPLES

Examined by E. M. Wright 4735 - 4785 to _____
R. W. Olsen to _____

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
4735	4740	60	<u>Siltstone</u> , red, gray green.	
		40	<u>Limestone</u> , dark gray, as above.	
4740	4745	70	<u>Limestone</u> , dark gray, brown, argillaceous.	
		20	<u>Shale and Siltstone</u> , varicolored, calcareous.	
		10	<u>Limestone</u> , light tan, I VFA, dolomite, trace dark tan chert.	
4745	4750	60	<u>Shale and Siltstone</u> , varicolored, as above.	
		40	<u>Limestone</u> , dark gray to brown.	
4750	4755	40	<u>Shale and Siltstone</u> , varicolored, as above.	
		40	<u>Limestone</u> , dark gray, I VFA, argillaceous, slightly sandy.	
		20	<u>Limestone</u> , white to light yellow, I VFA.	
4755	4760	50	<u>Limestone</u> , dark gray, I VFA, argillaceous, slightly sandy.	
		20	<u>Limestone</u> , white to light yellow, I VFA.	
		20	<u>Shale and Siltstone</u> , varicolored, calcareous.	
		10	<u>Sandstone</u> , white, very calcareous, very fine grain.	
4760	4770	50	<u>Limestone</u> , dark gray, as above. 4764-4770: <u>trace light yellow cut fluorescence in limestone.</u>	
		40	<u>Dolomite</u> , light brown to brown, I VFA, limy.	
		10	<u>Shale and Siltstone</u> , as above.	
4770	4775	40	<u>Limestone</u> , dark gray, as above.	
		20	<u>Dolomite</u> , as above.	
		30	<u>Limestone</u> , white, I VFA, slightly sandy.	
		10	<u>Shale and Siltstone</u> , as above.	
4775	4780	50	<u>Limestone</u> , dark gray to white, I VFA.	
		30	<u>Siltstone</u> , varicolored, calcareous, slightly sandy.	
		20	<u>Siltstone</u> , gray green, micaceous (?)	
4780	4785	50	<u>Limestone</u> , dark gray to medium brown, I VFA.	
		40	<u>Shale</u> , gray green, calcareous, silty, to very fine grained sand.	
		10	<u>Chert</u> , white to light brown, clear to milky.	

DITCH SAMPLES

Examined by E. M Wright 4785 to 4810
R. W. Olsen _____ to _____

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
4785	4790	40	<u>Shale</u> , brown to black, very calcareous, silty to very fine grained sand.	
		40	<u>Limestone</u> , as above.	
		20	<u>Limestone</u> , light tan, I VFA, dolomitic (?)	
4790	4800	40	<u>Shale</u> , gray green, calcareous, slightly silty.	
		30	<u>Limestone</u> , white, II FA, very soft, slightly sandy, chalky.	
		30	<u>Limestone</u> , gray, argillaceous.	
4800	4810	50	<u>Limestone</u> , dark gray, I VFA, argillaceous.	
		20	<u>Shale</u> , gray green, calcareous.	
		20	<u>Dolomite</u> , light tan, I VFA, limy.	
		10	<u>Limestone</u> , white, I-II VF-FA (crystals with chalky matrix)	

DITCH SAMPLES

Examined by E. M. Wright 4810-4845
to _____Well 3
Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
4810	4815	30	<u>Limestone</u> , white, II VF-FA	4777-4825: Trace yellow fluorescence in mud, probably contamination. 4800-05: <u>1% sample fluorescence light yellow cut fluorescence, in I VFA limestone.</u>
		30	<u>Dolomite</u> , light tan, limy, I VFA	
		20	<u>Limestone</u> , gray, argillaceous.	
		10	<u>Shale & Siltstone</u> , varicolored.	
		10	<u>Chert</u> , grains, round to subrounded.	
4815	4820	60	<u>Limestone</u> , white to light gray, I-II VFA, crystalline with some partial chalky matrix, fossiliferous (?).	
		30	<u>Limestone</u> , gray, argillaceous.	
		10	<u>Shale</u> , gray green, calcareous, silty to very finely sandy.	
4820	4825	60	<u>Limestone</u> , dark gray, argillaceous, fossiliferous, foram (?), crinoid stems.	
		30	<u>Limestone</u> , white, as above.	
		10	<u>Shale</u> , gray green, silty.	
4825	4830	80	<u>Siltstone</u> , varicolored, calcareous.	
		20	<u>Limestone</u> , white to gray, dolomitic (?).	
4830	4835	50	<u>Siltstone</u> , dark brown, calcareous, slightly to very sandy.	
		20	<u>Shale</u> , gray to light green, calcareous, slightly silty.	
		20	<u>Limestone</u> , light grayish brown, I-III VF-MA, trace B.	
		10	<u>Limestone</u> , dark gray, argillaceous.	
4835	4840	30	<u>Limestone</u> , medium gray, I VFA.	
		20	<u>Limestone</u> , light tan to light tan gray, oolitic, as above.	
		20	<u>Limestone</u> , light tan gray, I VFA.	
		15	<u>Shale</u> , purple and yellow mottled, non-calcareous.	
		15	<u>Dolomite</u> , light tan, calcareous, I VFA.	
4840	4845	50	<u>Limestone</u> , dark gray, I VFA, argillaceous.	
		30	<u>Siltstone</u> , brown, as above.	
		20	<u>Shale</u> , grayish green, calcareous, slightly silty.	

DITCH SAMPLES

Examined by W. R. Wright 4845-4855
R. W. Olsen _____ to _____

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED (NOT)
4845	4850	40	<u>Siltstone</u> , brown, calcareous.	
		30	<u>Dolomite</u> , grayish brown, calcareous, I VFA.	
		10	<u>Shale</u> , grayish green, calcareous, silty to very finely sandy.	
		10	<u>Shale</u> , purple, yellow, non-calcareous.	
		10	<u>Limestone</u> , dark gray, I VFA.	
4850	4855	40	<u>Limestone</u> , dark brown, I VF-FA, slightly fossiliferous.	
		30	<u>Limestone</u> , white to light yellow.	
		20	<u>Shale</u> , grayish green, as above.	
		10	<u>Dolomite</u> , as above, trace chert.	

DITCH SAMPLES

Examined by E. M. Wright 4855-4910
R. W. Olsen to

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
4855	4860	30	<u>Limestone</u> , dark brown, I VF-FA, slightly fossiliferous.	
		30	<u>Limestone</u> , white, I VFA.	
		20	<u>Shale</u> , dark gray, calcareous, fossiliferous (?)	
		20	<u>Shale</u> , greenish gray.	
4860	4870	40	<u>Limestone</u> , dark grayish brown to dark brown, I VFA.	
		30	<u>Limestone</u> , tan, fossiliferous, forams.	
		20	<u>Shale</u> , gray.	
		10	<u>Chert</u> , black to dark brown.	
4870	4875	80	<u>Shale</u> , gray to varicolored.	
		20	<u>Limestone</u> , light tan, IVFA, fossiliferous (?)	
4875	4880	70	<u>Siltstone</u> , brown to grayish green, in part varicolored, calcareous, calcite inclusions.	
		30	<u>Limestone</u> , dark gray to brown.	
4880	4890	30	<u>Limestone</u> , dark gray to dark brown, very argillaceous, fossiliferous (?), I VFA.	
		30	<u>Limestone</u> , white, I VFA in part II FA.	
		20	<u>Shale</u> , gray to green, calcareous, slightly silty.	
		20	<u>Shale</u> , dark gray to black, calcareous.	
4890	4900	50	<u>Limestone</u> , dark gray, argillaceous, I VFA.	
		20	<u>Limestone</u> , white, I VFA in part II FA, slightly sandy.	
		10	<u>Siltstone</u> , dark gray, calcareous.	
		10	<u>Shale</u> , greenish gray, calcareous.	
		10	<u>Sandstone</u> , white, very calcareous, very fine grained.	
4900	4905	70	<u>Siltstone</u> , medium gray to light grayish green.	
		20	<u>Siltstone</u> , brown to red.	
		10	<u>Limestone</u> , dark gray, as above.	
4905	4910	80	<u>Siltstone</u> , medium gray to light gray, (4845-55 as above.	Trace fine spotty black stains.
		20	<u>Siltstone</u> , brown, as above.	(4860-70 Trace light yellow cut

DITCH SAMPLES

Examined by E. M. Wright 4910-4920
R. W. Olsen to _____

Well 3
Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
4910	4915	50	<u>Limestone</u> , dark gray to brown, argillaceous.	
		40	<u>Shale</u> , gray, as above.	
		10	<u>Siltstone</u> , brown to grayish brown. trace chert with crinoids.	
4915	4920	40	<u>Limestone</u> , dark gray to dark brown, I VFA.	
		40	<u>Limestone</u> , light tan, I VFA.	
		20	<u>Shale</u> , light gray, as above.	

DITCH SAMPLES

Examined by E. M. Wright ⁴⁹²⁰ to ⁴⁹⁹⁰
R. W. Olsen to

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
4920	4925	60	<u>Siltstone</u> , medium brown to gray brown to gray, dolomitic, slightly calcareous.	
		40	<u>Dolomite</u> , light tan to brown, IVFA, slightly calcareous.	
4925	4930	70	<u>Dolomite</u> , gray green to brown, IVFA, slightly calcareous, oolitic (?), pyritic.	
		30	<u>Siltstone</u> , as above.	
4930	4940	75	<u>Dolomite</u> , gray brown, IVFA.	
		25	<u>Chert</u> , black, occasional calcite streaks.	
4940	4945	100	<u>Dolomite</u> , as above.	
4945	4955	80	<u>Dolomite</u> , as above.	
		20	<u>Limestone</u> , white in part mottled tan, IVFA, fossiliferous.	
4955	4960	70	<u>Dolomite</u> , grayish brown, IVFA.	
		30	<u>Siltstone</u> , medium brown to grayish brown, dolomitic, fossiliferous.	
4960	4965	90	<u>Dolomite</u> , light brown to dark brown, IVFA, fossiliferous, very slightly oolitic.	
		10	<u>Chert</u> , largely translucent fragments.	
4965	4970	50	<u>Dolomite</u> , as above.	
		30	<u>Siltstone</u> , grayish brown, as above.	
		20	<u>Sandstone</u> , brown, very fine grained, calcareous.	
4970	4975	60	<u>Dolomite</u> , as above, slightly pyritic.	
		30	<u>Sandstone</u> , white, medium gray, very slightly calcareous, poorly cemented to unconsolidated.	
		10	<u>Sandstone</u> , brown, calcareous, very fine grained.	
4975	4980	50	<u>Sandstone</u> , light green to yellow brown, fine grained, micaceous.	
		50	<u>Shale</u> , dark red to purple, slightly calcareous.	
4980	4985	50	<u>Sandstone</u> , light gray, fine grained, argillaceous, micaceous.	
		30	<u>Shale</u> , as above.	
		20	<u>Siltstone</u> , light gray, sandy, dolomitic, trace chert fragments.	
4985	4990	50	<u>Shale</u> , light gray, slightly to non-calcareous, rare pyrite.	
		30	<u>Shale</u> , light gray, sandy, slightly calcareous.	
		20	<u>Sandstone</u> , white, medium gray, poorly cemented.	

DITCH SAMPLES

Examined by E. M. Wright 4990 to 5035
R. W. Olsen _____ to _____

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
4990	4995	60	<u>Siltstone</u> , light gray, dolomitic, very finely sandy, micaceous, pyritic.	
		40	<u>Shale</u> , light gray, non-calcareous, micaceous.	
4995	5000	40	<u>Limestone</u> , dark gray to medium brown, IVFA, argillaceous, slightly dolomitic.	
		20	<u>Dolomite</u> , dark brown, IVFA, slightly calcareous, fossiliferous.	
		20	<u>Sandstone</u> , white, medium grained.	
		20	<u>Shale</u> , gray, non-calcareous, micaceous.	
5000	5010	60	<u>Siltstone</u> , light gray, fine grain sandy, non-calcareous.	
		20	<u>Sandstone</u> , green, fine grained, non-calcareous.	
		20	<u>Limestone</u> , medium brown, IVFA, slightly dolomitic.	
5010	5015	50	<u>Siltstone</u> , light gray, micaceous, sandy, slightly dolomitic, soft.	
		50	<u>Shale</u> , medium gray.	
5015	5020	90	<u>Siltstone</u> , light gray, micaceous, sandy, very soft, in part grades to sandy shale.	
		10	<u>Siltstone</u> , light green, very soft, non-calcareous.	
5020	5025	90	<u>Siltstone</u> , light gray, shaly, micaceous in part, soft, slightly dolomitic.	
		5	<u>Sandstone</u> , white, slightly calcareous, fine to medium grain, soft, argillaceous, quartzitic.	
		5	<u>Siltstone</u> , medium brown, soft, dolomitic.	
5025	5030	60	<u>Siltstone</u> , light gray, dolomitic, as above.	
		30	<u>Shale</u> , light gray, slightly sandy.	
		5	<u>Dolomite</u> , light gray, IVFA.	
		5	<u>Siltstone</u> , light brown, dolomitic.	
5030	5035	80	<u>Siltstone & Shale</u> , light gray, as above.	
		10	<u>Limestone</u> , white to light gray, IVFA.	
		10	<u>Dolomite</u> , light to dark gray, IVFA.	

DITCH SAMPLES

Examined by E.M. Wright 5035 to 5050
R. W. Olsen to

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5035	5040	50	<u>Siltstone</u> , light gray, as above, slightly shaly.	
		40	<u>Siltstone</u> , light reddish brown, soft, dolomitic.	
		5	<u>Limestone</u> , white, as above.	
		5	<u>Dolomite</u> , as above.	
5040	5045	60	<u>Shale</u> , light to dark grayish green, dolomitic, soft, silty in part, micaceous and carbonaceous in part.	
		30	<u>Limestone</u> , light to dark brown, IVFA, dolomitic.	
		10	<u>Shale</u> , light to dark red, non-calcareous.	
5045	5050	50	<u>Shale</u> , light to dark grayish green, silty.	
		30	<u>Limestone</u> , as above.	
		20	<u>Siltstone</u> , medium to dark brown, slightly calcareous.	

Shows: 5040-50 Approximately 0.1% sample fluorescence, trace light yellow cut fluorescence (In IVFA ls). Trace light spots and stains on samples.

DITCH SAMPLES

Examined by E.M. Wright 5050 to 5100
R.W. Olsen to

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5050	5055	45	<u>Limestone</u> , light brown, I-II VFA, slightly dolomitic and shaly.	
		45	<u>Shale</u> , medium to dark gray, slightly calcareous, micaceous.	
		10	<u>Siltstone</u> , light to dark reddish brown, slightly calcareous, soft.	
5055	5060	50	<u>Limestone</u> , as above.	
		40	<u>Shale</u> , as above.	
		10	<u>Quartz grains</u> , medium to coarse, subrounded.	
5060	5065	60	<u>Shale</u> , as above.	
		40	<u>Limestone</u> , as above.	
5065	5070	100	<u>Shale</u> , light red, mottled dark red and yellow, soft, non-calcareous.	
5070	5075	60	<u>Shale</u> , light to medium gray, slightly calcareous, micaceous.	
		40	<u>Dolomite</u> , white to light brown, I-II VFA.	
5075	5080	50	<u>Shale</u> , gray, as above.	
		30	<u>Shale</u> , light red to mottled dark red, as above.	
		20	<u>Limestone</u> , as above, fossiliferous.	
5080	5085	50	<u>Shale</u> , light to dark gray, as above.	
		40	<u>Limestone</u> , as above.	
		10	<u>Shale</u> , light red to mottled dark red.	
5085	5090	60	<u>Dolomite</u> , white to light gray, I-II VFA.	
		40	<u>Shale</u> , light to dark gray, as above.	
5090	5095	60	<u>Shale</u> , light to dark gray, as above.	
		30	<u>Shale</u> , light brownish red, calcareous, soft.	
		10	<u>Dolomite</u> , white to light gray, as above.	
5095	5100	50	<u>Shale</u> , mottled red, calcareous to non-calcareous, soft.	
		30	<u>Shale</u> , light to dark gray, as above, trace anhydrite inclusions.	
		20	<u>Limestone</u> , white to light gray. I VFA.	

DITCH SAMPLES

Examined by E.M. Wright 5100 to 5170
R.W. Olsen _____ to _____

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
			Shows:	
			(5055-60)	Approximately 0.1% sample fluorescence, trace light.. <u>yellow cut fluorescence (in I VFA limestone.)</u> Trace <u>black spots and stains on sample.</u>
			(5070-75)	
			(5080-85)	
			(5095-5105)	
5100	5105	40	<u>Limestone</u> , white to light gray, I-II VFA.	
		30	<u>Shale</u> , light to dark gray, slightly calcareous.	
		20	<u>Dolomite</u> , white to light gray, as above.	
		10	<u>Shale</u> , mottled red, as above,	
5105	5115	90	<u>Dolomite</u> , light to dark gray, I-II VFA, slightly argillaceous and pyritic.	
		10	<u>Shale</u> , mottled, as above.	
5115	5120	70	<u>Shale</u> , medium gray, silty, dolomitic.	
		30	<u>Dolomite</u> , light tan to gray, I VFA, very slightly limy.	
5120	5125	70	<u>Shale</u> , as above.	
		30	<u>Dolomite</u> , dark gray to medium brown, with calcite inclusions and seams.	
5125	5130	80	<u>Dolomite</u> , as above.	
		10	<u>Sandstone</u> , white, very fine grained, dolomitic, very slightly calcareous.	
		10	<u>Dolomite</u> , white, I-II VFA, limy.	
5130	5135	80	<u>Shale</u> , medium gray, slightly calcareous, dolomitic, uniform texture.	
		20	<u>Dolomite</u> , light tan, as above.	
5135	5140	55	<u>Limestone</u> , light gray to medium brown, I VFA, dolomitic.	
		40	<u>Shale</u> , medium gray, slightly calcareous, silty.	
		5	<u>Chert</u> , light amber, slightly milky.	
5140	5150	80	<u>Limestone</u> , white to light tan, I VFA, fossiliferous.	
		20	<u>Shale</u> , medium gray, as above.	
5150	5160	100	<u>Limestone</u> , white, I-II VFA.	
5160	5170	70	<u>Limestone</u> , white to medium brown, I VFA, fossiliferous, oolitic(?).	
		30	<u>Shale</u> , medium gray, slightly silty, dolomitic.	

DITCH SAMPLES

Examined by E.M. Wright 5170 to 5195
R.W. Olsen _____ to _____Well 3
Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5170	5175	60	<u>Limestone</u> , as above.	
		40	<u>Shale</u> , as above,	
5175	5180	70	<u>Limestone</u> , as above,	
		30	<u>Shale</u> , as above, slightly sandy (very finely grained).	
5180	5195	90	<u>Limestone</u> , white to light tan, dolomitic, fossiliferous.	
		10	<u>Shale</u> , as above,	

Shows: 5120-50: Approximately 0.1% sample fluorescence, trace light yellow cut fluorescence (in 1 VFA limestone). Small black stains or spots along fractures or in grain boundaries.

DITCH SAMPLES

Examined by E.M. Wright 5195 to 5290
R.W. Olsen _____ to _____
R. Knight

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5195	5200	80	<u>Limestone</u> , as above.	
		20	<u>Limestone</u> , white to light tan, dolomitic, fossiliferous in part.	
5200	5205	80	<u>Limestone</u> , light tan, I VFA.	
		20	<u>Limestone</u> , white, I-II VFA, limestone crystals with chalky matrix.	
5205	5210	100	<u>Limestone</u> , light brown, I VF-FA, with fragments light brown chert.	
5210	5215	50	<u>Limestone</u> , as above.	
		50	<u>Dolomite</u> , pale gray, III FA.	
5215	5220	100	<u>Shale</u> , medium gray, calcareous.	
5220	5225	70	<u>Shale</u> , as above.	
		30	<u>Limestone</u> , light gray, I VFA.	
5225	5230	50	<u>Shale</u> , as above.	
		50	<u>Limestone</u> , light brown, IVF-FA.	
5230	5235	70	<u>Limestone</u> , as above.	
		30	<u>Shale</u> , as above.	
5235	5240	60	<u>Shale</u> , medium gray, silty, calcareous.	
		40	<u>Limestone</u> , as above.	
5240	5245	100	<u>Limestone</u> , light brown, I-IIIF-MA, very dolomitic.	
5245	5250	100	<u>Limestone</u> , as above, (sample very poor)	
5250	5255	100	<u>Limestone</u> , light brown, I-III F-MA.	
5255	5260	100	<u>Limestone</u> , tan, I VFA.	
5260	5265	100	<u>Dolomite</u> , light gray, III FA with trace B.	
5265	5270	100	<u>Dolomite</u> , tan, calcareous, III FA.	
5270	5275	100	<u>Dolomite</u> , as above.	
5275	5285	100	<u>Shale</u> , medium gray, calcareous.	
5285	5290	100	<u>Limestone</u> , light gray brown, I VFA.	

DITCH SAMPLES

Examined by W.M. Wright 5290 to 5300
R.W. Olsen to
R. Knight

Well 3
Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5290	5295	70	<u>Dolomite</u> , tan, III FA	
		30	<u>Limestone</u> , as above. Trace light gray, chert fragments.	
5295	5300	50	<u>Dolomite</u> , as above.	
		30	<u>Shale</u> , medium gray, calcareous.	
		20	<u>Limestone</u> , as above.	

DITCH SAMPLES

Examined by B. Robinson 5300 to 5410
R. Knight _____ to _____

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5300	5305	50	<u>Dolomite</u> , tan, III FA.	
		30	<u>Limestone</u> , medium gray, calcareous.	
		20	<u>Limestone</u> , light gray brown, I VFA.	
5305	5310	40	<u>Dolomite</u> , as above.	
		40	<u>Shale</u> , medium gray, calcareous.	
		20	<u>Limestone</u> , light gray brown, I VFA.	
5310	5315	50	<u>Limestone</u> , tan-gray, I VFA.	
		50	<u>Shale</u> , as above.	
5315	5325	70	<u>Shale</u> , as above.	
		30	<u>Limestone</u> , gray & brown, I VFA.	
5325	5330	100	<u>Shale</u> , as above.	
5330	5335	100	<u>Limestone</u> , light brown, I VFA.	
5335	5340	100	<u>Limestone</u> , tan, I VFA, pseudoolitic.	
5340	5350	100	<u>Limestone</u> , as above, with rare orange brown chert fragments, crinoid stems.	
5350	5355	100	<u>Limestone</u> , light gray, I-II VF-FA.	
5355	5360	50	<u>Limestone</u> , as above.	
		50	<u>Limestone</u> , tan I VFA; trace (chip) limestone, light gray, III F + B ₅ , oolitic, <u>spotty yellow fluorescence</u> , <u>poor yellow cut fluorescence</u> .	
5360	5370	100	<u>Limestone</u> , light gray-tan, I VFA with light gray <u>chert</u> fragments.	
5370	5380	100	<u>Limestone</u> , light gray, I VF-FA.	
5380	5385	100	<u>Limestone</u> , light brown, I VFA.	
5385	5390	100	<u>Limestone</u> , gray brown, I VFA.	
5390	5395	100	<u>Limestone</u> , as above.	
5395	5400	100	<u>Limestone</u> , white, I-III VF-FA.	
5400	5405	100	<u>Dolomite</u> , white, III M-LA + trace B ₁₋₅ , corals, appears clastic.	
5405	5410	50	<u>Dolomite</u> , as above. (clastic with limestone cement)	
		50	<u>Dolomite</u> , light gray, III M-LA + 10% B ₅ . <u>Trace spotty yellow fluorescence</u> , <u>poor yellow cut fluorescence</u> .	

DITCH SAMPLES

Examined by B. Robinson 5410 to 5525
R. Knight to

Well 3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5410	5415	100	<u>Dolomite</u> , buff - light gray, III M-IA + 10% B ₅ , <u>shows as above.</u>	
5415	5420	100	<u>Dolomite</u> , as above, + 20% B ₁₋₅ , with light brown <u>Chert</u> fragments.	
5420	5425	100	<u>Dolomite</u> , as above, + 10% B ₁₋₅ .	
5425	5430	100	<u>Dolomite</u> , light gray, III FA.	
5430	5435	100	<u>Dolomite</u> , as above.	
5435	5440	100	<u>Limestone</u> , light brown, III FA, very dolomitic, <u>trace spotty yellow fluorescence, poor yellow cut fluorescence.</u>	
5440	5445	100	<u>Limestone</u> , as above, I-III VF-FA, dolomitic, rare fusulinid.	
5445	5450	100	<u>Limestone</u> , as above, no fusulinid.	
5450	5455	100	<u>Limestone</u> , light gray brown, I-III VFA, fragments light gray chert, few corals.	
5455	5460	100	<u>Limestone</u> , as above.	
5460	5465	100	<u>Limestone</u> , light brown, speckled brown, I-III VF-FA, rare coral fragments.	
5465	5470	80	<u>Limestone</u> , as above.	
		20	<u>Shale</u> , purple, soft, flaky.	
5470	5475	100	<u>Limestone</u> , light gray, I-III VF-FA, rare coral fragments.	
5475	5500	100	<u>Limestone</u> , tan, I-III VF-FA, oolitic in part, some coral fragments.	
5500	5510	100	<u>Limestone</u> , tan, I VFA, abundant coral, some <u>chert</u> .	
5510	5515	60	<u>Limestone</u> , as above.	
		40	<u>Shale</u> , light green gray, silty.	
5515	5520	80	<u>Limestone</u> , as above.	
		20	<u>Chert</u> , light gray brown.	
5520	5525	100	<u>Limestone</u> , as above, with chert fragments.	

DITCH SAMPLES

Examined by B. Robinson 5525 to 5650
R. Knight _____ to _____
R. W. Olsen _____

Well #3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5525	5530	100	<u>Limestone</u> , light brown, I VFA.	
5530	5535	80	<u>Limestone</u> , light gray, I-III VF-FA.	
		20	<u>Shale</u> , orange, silty, calcareous.	
5535	5540	100	<u>Shale</u> , varicolored, (red, orange, gray, and purple.)	
5540	5545	100	<u>Limestone</u> , tan, I VFA, few light gray <u>chert</u> fragments.	
5545	5550	100	<u>Limestone</u> , buff, I-III VF-FA.	
5550	5565	100	<u>Limestone</u> , tan, I VFA, with some <u>shale</u> .	
5565	5570	70	<u>Limestone</u> , as above.	
		30	<u>Limestone</u> , I-III VF-FA.	
5570	5580	70	<u>Limestone</u> , as above.	
		30	<u>Shale</u> , medium gray, silty, calcareous.	
5580	5585	100	<u>Shale</u> , medium gray and brown, silty, calcareous, bryozoan fragments.	
5585	5590	100	<u>Shale</u> , gray brown, purple, calcareous, silty.	
5590	5595	50	<u>Shale</u> , light brown.	
		50	<u>Shale</u> , dark purple, slightly calcareous, silty, few fragments ochre I VFA limestone.	
5595	5600	100	<u>Shale</u> , green, brown, purple.	
5600	5605	100	<u>Shale</u> , light green, light brown, dark purple, rare orange <u>chert</u> .	
5605	5610	100	<u>Shale</u> , light green and purple.	
5610	5615	80	<u>Shale</u> , as above.	
		20	<u>Limestone</u> , tan, I VFA	
5615	5635	100	<u>Shale</u> , as above.	
5635	5640	80	<u>Shale</u> , as above.	
		20	<u>Limestone</u> , tan, I VFA, rare fragment white <u>chert</u> .	
5640	5645	100	<u>Shale</u> , as above.	
5645	5650	70	<u>Shale</u> , as above.	
		30	<u>Limestone</u> , white, I-III VF-FA.	

DITCH SAMPLES

Examined by R. Knight 5650 to 5765
R. W. Olsen to

Well #3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5650	5660	100	<u>Shale</u> , as above.	
5660	5665	80	<u>Shale</u> , as above.	
		20	<u>Limestone</u> , white-tan, I-III VF-FA.	
5665	5670	80	<u>Shale</u> , as above.	
		20	<u>Limestone</u> , white-ochre, I VFA with pseudo-oolites.	
5670	5675	50	<u>Shale</u> , as above.	
		50	<u>Limestone</u> , as above.	
5675	5685	70	<u>Shale</u> , purple, brown, green.	
		30	<u>Limestone</u> , tan, I VFA, pseudo-oolitic, with streaks of purple, trace brown red <u>shale</u> .	
5685	5690	80	<u>Shale</u> , as above.	
		20	<u>Limestone</u> , as above.	
5690	5695	70	<u>Shale</u> , as above.	
		30	<u>Limestone</u> , tan-light brown, I VFA, pseudo-oolitic.	
5695	5700	80	<u>Shale</u> , as above.	
		20	<u>Limestone</u> , as above, with trace yellow III FA limestone.	
5700	5715	100	<u>Limestone</u> , tan-light yellow, I VFA, pseudo-oolitic in part.	
5715	5720	100	<u>Limestone</u> , tan, I-III VF-FA	
5720	5725	100	<u>Limestone</u> , tan, I VFA with small pseudo-oolites.	
5725	5730	100	<u>Limestone</u> , light yellow, III FA.	
5730	5735	100	<u>Limestone</u> , tan, I VFA.	
5735	5740	50	<u>Limestone</u> , light yellow, III FA.	
		50	<u>Limestone</u> , tan, I VFA.	
5740	5750	100	<u>Limestone</u> , tan, I VFA, trace III FA limestone.	
5750	5760	100	<u>Limestone</u> , white, III-II VF-FA.	
5760	5765	100	<u>Limestone</u> , white, III-II VF-FA, interval 5750-65 approximately 1% spotty fluorescence, trace pale yellow cut fluorescence.	

DITCH SAMPLES

Examined by R. Knight 5765 to 5860
R. W. Olsen to

Well #3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5765	5770	90	<u>Limestone</u> , as above.	
		10	<u>Limestone</u> , tan, I M-LA, with large pseudo-oolites.	
5770	5790	100	<u>Dolomite</u> , tan, III FA, calcareous.	
5790	5795	50	<u>Limestone</u> , white, II A.	
		50	<u>Limestone</u> , tan, I-III VF-FA.	
5795	5800	70	<u>Limestone</u> , white, I M-LA.	
		30	<u>Limestone</u> , white, II A.	
5800	5805	100	<u>Limestone</u> , white, I-III VF-MA.	
5805	5810	70	<u>Limestone</u> , as above.	
		30	<u>Chert</u> , light brown.	
5810	5815	100	<u>Limestone</u> , tan and white, I-III VF-FA, with cherty fragments.	
5815	5820	70	<u>Limestone</u> , white, I VFA.	
		30	<u>Limestone</u> , white, II A.	
5820	5825	70	<u>Limestone</u> , white-tan, I VFA.	
		30	<u>Limestone</u> , white, II A.	
5825	5830	60	<u>Limestone</u> , white, I MA, pseudo-oolitic.	
		40	<u>Limestone</u> , white, II A.	
5830	5835	70	<u>Limestone</u> , as above. (I MA)	
		30	<u>Limestone</u> , as above. (II A)	
5835	5840	100	<u>Limestone</u> , white, III-II VF-MA.	
5840	5845	60	<u>Limestone</u> , white, III FA.	
		40	<u>Limestone</u> , white, II A.	
5845	5850	70	<u>Limestone</u> , white, III-II VF-FA. Shows: 5845-50: trace spotty fluorescence, pale yellow cut fluorescence.	
		30	<u>Chert</u> , light gray.	
5850	5855	100	<u>Dolomite</u> , medium brown, calcareous in part, III MB ₁₋₅ .	
5855	5860	100	<u>Dolomite</u> , medium brown, III MB _{1-5C1} .	

DITCH SAMPLES

Examined by R. Knight 5860 to 5985
R. W. Olsen to

Well #3
 Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5860	5865	100	<u>Dolomite</u> , medium brown, III M trace B & C.	
5865	5870	100	<u>Dolomite</u> , light brown, III F-M trace B & C.	
5870	5875	100	<u>Dolomite</u> , tan, III FA, calcareous.	
5875	5880	100	<u>Limestone</u> , white, dolomitic, III F-MA.	
5880	5885	100	<u>Dolomite</u> , light brown, III F-MA, trace B.	
5885	5900	100	<u>Dolomite</u> , light brown, III F-MA.	
5900	5910	100	<u>Dolomite</u> , light brown, III FA trace B.	
5910	5915	100	<u>Dolomite</u> , tan-light brown, calcareous, III FA.	
5915	5920	100	<u>Dolomite</u> , light brown, III FA.	
5920	5925	100	<u>Dolomite</u> , light brown, III FA trace C.	
5925	5940	100	<u>Dolomite</u> , light brown, slightly calcareous, III MA trace B.	
5940	5950	100	<u>Dolomite</u> , medium brown, III M B ₁₋₅ .	
5950	5955	50	<u>Dolomite</u> , as above.	
		50	<u>Dolomite</u> , light brown, calcareous, III F-MA.	
5955	5960	100	<u>Dolomite</u> , medium brown, III F-MA. <u>Shows: 5925-30: trace sample fluorescence, very slight trace cut fluorescence.</u>	
5960	5965	100	<u>Dolomite</u> , medium brown, III F-MA trace B.	
5965	5970	100	<u>Dolomite</u> , tan, III FA, very calcareous, few partings light green <u>shale</u> .	
5970	5975	70	<u>Dolomite</u> , as above.	
		20	<u>Dolomite</u> , tan, as above.	
		10	<u>Shale</u> , green.	
5975	5980	30	<u>Dolomite</u> , pale green, III FA.	
		40	<u>Dolomite</u> , tan, as above.	
		30	<u>Limestone</u> , tan, I VFA.	
5980	5985	60	<u>Limestone</u> , white, I VF-MA, with green waxy <u>shale</u> partings.	
		40	<u>Limestone</u> , tan, as above.	

DITCH SAMPLES

Examined by R. Knight 5985 to 6020
R. W. Olsen toWell #3
Field or Area East Boundary Butte

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5985	5990	100	<u>Limestone</u> , white, III MA with minor green <u>shale</u> parts.	
5990	5995	80	<u>Limestone</u> , as above.	
		20	<u>Dolomite</u> , light gray, III MA.	
5995	6010	100	<u>Dolomite</u> , light gray, III F-MA, with trace light green <u>shale</u> .	
6010	6015	80	<u>Dolomite</u> , as above.	
		20	<u>Shale</u> , light green.	
6015	6020	100	<u>Dolomite</u> , tan, III F-MA.	

STATE OF UTAH
OIL AND GAS CONSERVATION COMMISSION
AFFIDAVIT AND RECORD OF ABANDONMENT AND PLUGGING

PLUGGING METHODS AND PROCEDURE: - The methods and procedure for plugging a well shall be as follows: (a) The bottom of the hole shall be filled to, or a bridge shall be placed at, the top of each producing formation open to the well bore, and in either event a cement plug not less than fifty (50) feet in length shall be placed immediately above each producing formation open to the well bore whenever possible.

(b) A cement plug not less than fifty (50) feet in length shall be placed at approximately fifty (50) feet above and below all fresh water bearing strata.

(c) A plug shall be placed at or near the surface of the ground in each hole.

(d) The interval between plugs shall be filled with heavy mud laden fluid.

(e) The hole shall be plugged with heavy mud up to the base of the surface string at which point a plug of not less than fifty (50) feet of cement shall be placed.

Field or Pool East Boundary Butte County San Juan

Lease Name Tribal Lands Well No. 3 Sec 25 Twp 43 S. Range 23 E.

Date well was plugged May 8, 19 56.

Was the well plugged according to regulation of the Commission? Yes

Set out method used in plugging the well, the nature and quantities of materials used in plugging, size of plugs, location and extent (by depths) of the plugs of different materials, and the amount of casing left in hole. (giving size, top and bottom elevations of each section of abandoned casing)

1. Method used in plugging: Displacement

2. Materials used: Cement and mud.

3. Plugs:

- A. With open end drill pipe hung at 5900', plugged with 30 sacks cement (5900'-5800')
- B. With open end drill pipe hung at 5700', plugged with 30 sacks cement (5700'-5600')
- C. With open end drill pipe hung at 5200', plugged with 60 sacks cement (5200'-5000')

(OVER)

Operator R. E. Eddy Senior Exploitation Engineer

Shell Oil Company

Address 33 Richards Street

Salt Lake City 1, Utah

Noted 5/24/56
33 H

AFFIDAVIT

STATE OF UTAH

COUNTY OF Salt Lake

Before me, the undersigned authority, on this day personally appeared R. E. Eddy, known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me this 22nd day of May 19 56.

My Commission Expires: JUNE 9, 1956

[Signature]
(Notary Public)

INSTRUCTIONS: Complete this form in duplicate and mail both copies to the Oil and Gas Conservation Commission, Room 105, Capitol Bldg, Salt Lake City 11, Utah.

- D. With open end drill pipe hung at 4950', plugged with 70 sacks cement (4950'-4700)
- E. With open end drill pipe hung at 4000', plugged with 30 sacks cement (4000'-3900)
- F. With open end drill pipe hung at 3150', plugged with 30 sacks cement (3150'-3050)
- G. With open end drill pipe hung at 2400', plugged with 30 sacks cement (2400'-2300)
- H. With open end drill pipe hung at 2150', plugged with 60 sacks cement (2150'-1950)
- I. With open end drill pipe hung at 1700', plugged with 30 sacks cement (1700'-1600)
- J. With open end drill pipe hung at 1350', plugged with 30 sacks cement (1350'-1250)
- K. With open end drill pipe hung at 835', plugged with 50 sacks cement (835'-730)

- 4. Heavily mud laden fluid was used between each plug.
- 5. Ran in and found firm cement at 675'.
- 6. Surface casing left in hole @ to 822'.
- 7. Plugged at surface with a 10 sack cement plug, installed marker and officially abandoned on 5-14-56.

MAY 23 1956

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

	25	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Indian Lands

Lease No. 14-28-603-215

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<input checked="" type="checkbox"/>		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 9, 1956

East Boundary Butte
Well No. 3 is located 600 ft. from S line and 1020 ft. from W line of sec. 25

SW/4 25 43 S. 23 E. S.L.B.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wildcat San Juan Utah
(Field) (County or Subdivision) (State or Territory)

Kelly Bunting
The elevation of the derrick floor above sea level is 5373.78 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Reason for abandonment: "Dry Hole"

Present Status: T.D. 6020

Surface Casing: 9 5/8" to 822'

Hole Size: 7 7/8" from 922 to T.D.

Proposed Work:

With drill pipe hung at 5900' plug with 30 sacks cement (5900-5900)
With drill pipe hung at 5700' plug with 30 sacks cement (5700-5600)
With drill pipe hung at 5200' plug with 60 sacks cement (5200-5000)
With drill pipe hung at 4950' plug with 70 sacks cement (4950-4700)
With drill pipe hung at 4000' plug with 30 sacks cement (4000-3900)
With drill pipe hung at 3150' plug with 30 sacks cement (3150-3050)
With drill pipe hung at 2400' plug with 30 sacks cement (2400-2300)
With drill pipe hung at 2150' plug with 60 sacks cement (2150-1950) (ATTN)

I understand that this plan of work must receive approval in writing of the Geological Survey before operations are begun.

Company Shell Oil Company

Address 33 Richards Street

Salt Lake City 1, Utah

By B.W. Shepard
B. W. Shepard
Title Exploitation Engineer

Noted
Case
5/10/56

Verbal approval to abandon obtained from P. T. McIntosh on May 4, 1956.

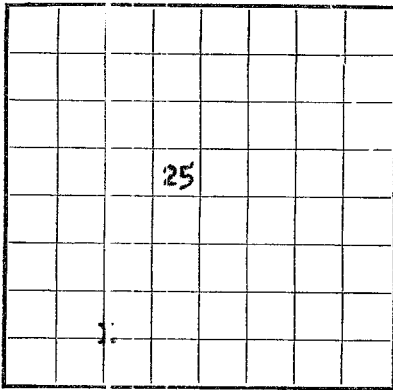
With drill pipe hung at 2150' plug with 60 sacks cement (2150-1950)
With drill pipe hung at 1700' plug with 30 sacks cement (1700-1600)
With drill pipe hung at 1350' plug with 30 sacks cement (1350-1250)
With drill pipe hung at 835' plug with 90 sacks cement (835-730)

2. Run in with drill pipe and feel for top plug. Recement if not above 800'.
3. Cap with a 10 sack cement plug, install marker and abandon in accordance with U.S.G.S. regulations.

MAY 17 1956

STANDARD 10-215-50

Window Rock
U. S. LAND OFFICE
14-20-603-215
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address 33 Richards St., Salt Lake City, Utah
Lessor or Tract Tribal Lands Field E. Boundary Butte State Utah
Well No. 3 Sec. 25 T. 43S R. 23E Meridian S.L.B. & M. County San Juan
Location 600 ft. N. of S. Line and 1820 ft. E. of W. Line of Section 25 Elevation 5374, K.B.
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed B. W. Shepard
Date 6-14-56 Title Exploitation Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling March 24, 1956 Finished drilling May 4, 1956

OIL OR GAS SANDS OR ZONES

(Denote gas by G) NONE

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ (S) No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from None Noted to _____
No. 2, from _____ to _____ (S) No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
9 5/8"	36	8	Nat'l	823	Baker	--	--	--	Surface Casing.
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	823	275	Displacement	--	--

PLUGS AND ADAPTERS

Heaving plug: Material Cement Length See Attached Depth set --
Adapters: Material _____ Size _____

SHOOTING RECORD

Heaving plug—Material Cement Length See Attached Depth set --
 Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
			None			

TOOLS USED

Rotary tools were used from 0 feet to 6020 feet, and from -- feet to -- feet
 Cable tools were used from -- feet to -- feet, and from -- feet to -- feet

Abandoned as a "dry hole" on
May 14, 1956

DATES

Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

C. H. Swisher, Driller

E. B. Foster, Driller

, Driller

L. Perryman, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	970	970	Navajo
970	1690	720	Chinle
1690	1790	100	Shinarump
1790	1980	190	Moenkopi
1980	2340	360	De Chelly
2340	2940	600	Organ Rock
2940	3925	985	Cedar Mesa
3925	4990	1065	Hermosa
4990	5310	320	Paradox Member
5310	5525	215	Lower Hermosa
5525	5630	105	Molas
5630	5845	215	Leadville
5845	5975	130	Ouray
5975	--		Elbert
LEON	LO	LOVI LEE	LOHVLIOX

[OVER]

16-48094-3

FORMATION RECORD—Continued

JUN 18 1956

Hole No.		Date		Locality		Geological Notes	
100		1950		100		100	
Casing Size	Amount of Cement	Number of Shots	Method Used	Time Required	Remarks		

MUDDING AND CEMENTING RECORD

HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Casing Size	Depth of Well	Direction of Well	Depth	Amount	Kind of Shot	Cut and Pulled from	Remarks
					Attached		

CASING RECORD

No. 3' from	No. 4' from	(2) Shell Drilling history including:
No. 1' from	No. 13' from	Drilling reports
IMPORTANT WATER SAMPLE Description		
No. 3' from	No. 8' from	(2) Baroid Logging Unit Report
No. 5' from	No. 2' from	
No. 1' from	No. 4' from	

(Denote gas by G)

OIL OR GAS SANDS OR ZONES

Commenced drilling	1950	Finished drilling	1950
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The summary on this page is for the condition of the well at above date.

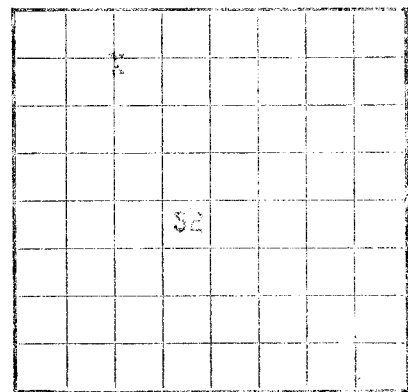
Date	1950	Time	10:00
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so far as can be determined from all available records.

The information given hereafter is a complete and correct record of the well and all work done thereon.

Location	100	of	100	and	100	of	100	Line of	100	Direction	100
Well No.	3	200	100	100	100	100	100	100	100	100	100
Owner or Trust	100					100	100	100	100	100	100
Company	100					100	100	100	100	100	100

LOCATE WELL CORRECTLY



LOC OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

Drawn on	100
Revised	100
U. S. GEOLOGICAL SURVEY	100